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Nisivoccia Consulting LLC
A user-friendly method that allows client computers to **access server** ... Relative URLs may
only specify directory **path information** along with a file name. ...
www.nisivocciaconsulting.com/tech_glossary.htm - 366k - <u>Cached</u> - <u>Similar pages</u>

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... In The Sky PIU **Path Information** Unit PIU Plug-In Unit PIWG Performance Issues ...
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Access Server (NAS/BAS), the Digital **Subscriber** Line Multiplexers (DSLAMs), ...
(Switched **Virtual Circuit**). A PVC is established statically by the network ...
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Displays permanent **virtual circuit** statistics for Frame Relay or MLFR. interfaces. ...
Displays **path information** for the specified BGP neighbor. Syntax: ...
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Cisco Management Information Base (MIB) User Quick Reference ...
When the row represents a permanent **virtual circuit** (PVC), then these two ... section are
used to manage modems in the Cisco AS5200 universal **access server**. ...
www.cisco.com/en/US/products/sw/iosswrel/
ps1824/products_mib_quick_reference_chapter09186a0080080e6b.html - 720k -
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CCDP: Cisco Internetwork Design Study Guide:Glossary
After CHAP is performed, the router or **access server** determines whether a given user
is ... **Compare** with: control distribute VCC and control direct VCC. ...
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Digital **Subscriber** Line (DSL) ... Transport-layer functions typically include flow control,
multiplexing, **virtual circuit**. management, and error checking ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental
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A broadband **access server** for holding user channels by PPP and ... Atm permanent
virtual circuit and layer 3 auto-configuration for digital **subscriber** line ...
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vcd—**Virtual circuit** descriptor that is an identifier for the VC in other ... **subscriber**
disconnect command and the RADIUS dynamic-request server. feature. ...
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backbone on which the **virtual circuit** is configured. As part of its ...
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operations. Ireland, for example, in a street address ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental
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Multiplex communications patents 200605
A broadband **access server** for holding user channels by PPP and ... Atm permanent
virtual circuit and layer 3 auto-configuration for digital **subscriber** line ...
www.freshpatents.com/Multiplex-communications-dt200605ntc370.php - 301k -
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Selected messages generated by a **subscriber** unit that would otherwise be ... The **virtual**
circuit includes a first end connected to a first router and a ...
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[DOC] CCNA (Cisco Certified Network Associate) Certification Exam Objectives
File Format: Microsoft Word - View as HTML
A Frame Relay **virtual circuit** is a logical connection created between two data ... NTs
connect the four-wire **subscriber** wiring to two-wire local loops. ...
www.angelfire.com/ny5/bleecker/BIGSTUDY.DOC - Supplemental Result - Similar pages

[DOC] PREFACE
File Format: Microsoft Word - View as HTML
... set of VPCs have to be established for conveying the user **path information** ...
importance of these problems and to **compare** them to other factors like, ...
www.eurescom.de/~pub-deliverables/p300-series/P302/FINAL/VOL01.DOC - Supplemental
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Cross-Platform Release Notes for Cisco IOS Release 12.3, Part 6 ...
Symptoms: A Cisco **Access server** that terminates virtual-profile calls with ... Symptoms:
When a Cisco router reloads, the ATM permanent **virtual circuit** ...
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ps5187/prod_release_note09186a00803704f4.html - Similar pages

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... over TCP/IP: CMPS **Compare** Word String: CMS Code/Connection Management
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1 These indices were prepared by Irwin A Danto Computer Science ...
... universities were chosen for the **comparison** and a questionnaire appendix ... their
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[PDF] The Ultimate Computer Acronyms Archive
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ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line.
(Communication). BE: Below or Equal ...
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Abkürzungen
Asymmetric Digital **Subscriber** Line [technology] (BELLCORE, AT&T, DSL, ... Intel) Vibrant
Colour Quality (Matrox) **Virtual Circuit** System Virtual Channel ...
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Identifies the Permanent **Virtual Circuit** (PVC) connections ... The number used to call a
mobile **subscriber**. An MSISDN. consists of a country code, ...
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ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line.
(Communication). BE: Below or Equal. Page 13 of 160. www.acronyms.ch ...
www.cherokee-education.net/acronyms.pdf - Supplemental Result - Similar pages

[PS] V.E.R.A.
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Permanent **Virtual Circuit** / Channel / Connection (ATM) ... Very high data / bit rate Digital
Subscriber Line (DSL). VDT. Video Display Terminal ...
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V.E.R.A. Suchergebnisse
ADSL Asymmetric Digital **Subscriber** Loop [modulation]. ADSP Advanced Digital Signal
Processor ... PVC Permanent **Virtual Circuit** / Channel / Connection (ATM) ...

cgi.snafu.de/ohei/user-cgi-bin/veraresp.cgi?
Suchoption=Akronym;Weitere+Option=wide;Anfrage=.*.*.* - Similar pages

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... ADS/O Application Development System/On-Line ADSF Automatic Directional
Solidification Furnace ADSL Asymmetrical Digital **Subscriber** Loop ADSP Apple Data ...
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[PDF] NETWORK TECHNOLOGIES AND APPLICATIONS
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Server**: An **access server** acts as a concentration point for dial-in ...
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... "Diameter Network **Access Server** Application", Pat Calhoun, Glen Zorn, ... for Very High
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Which type of WAN **virtual circuit** is created on demand and terminated when ... C. Order
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Chapter 10 **Subscriber** to Provider, and **Subscriber** to **Subscriber**. Edge: IP ...
comparison with data networks, for all practical purposes they have always ...
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20Networks.pdf - Supplemental Result - Similar pages

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90%, **Subscriber** Identification Module (Mobile Systems) (SIM) ... 90%, Telephone **Access
Server** (TAS). 90%, Turbo Assembler [Borland] (TASM) ...
www.netx.ch/lexikon/suche.asp?str= - 829k - Cached - Similar pages

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ADSL Asymmetrical Digital **Subscriber** Loop ... ASM Analog **Subscriber** Module ASM
Assembler ASM Assembler Language File ASM Assembly ASM Association of Systems ...
thief.co.za/i/textfile/magazines/phantasy/iirg-acronyms-v12.asp - 250k - Supplemental
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[PDF] Cisco Router Configuration, Second Edition
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When you receive your router or **access server**, all the ... subinterfaces are used when a
single **virtual circuit** connects one router to another. Think of ...
www.ciscopress.com/content/downloads/cisco/1578702410.pdf - Similar pages

Cisco 1.3.6.1.4.1.9 SNMP MIB

This MIB module describes IDSL (ISDN Digital Line **Subscriber**) line interfaces. ... from either CISCO A - Network **Access Server** (NAS)/ Local Access ...
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... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ... Nested Tunnels Optimization using Nested **Path Information**", Jongkeun Na, ...
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His NTBugTraq mailing list has 25000 **subscribers**, and his Web site gets 2 ... for PPTP in its Routing and Remote **Access Server** for Windows NT Server 4.0. ...
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Internet Drafts Abstracts Index
Which **subscriber**? As the list grows, this question becomes more and more difficult to ... associated with an established Permanent **Virtual Circuit** (PVC), ...
hegel.ittc.ku.edu/topics/internet/internet-drafts/index-long.html - Similar pages

[PDF] About This Manual
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subscriber, and as much as 640 kbps more in both directions. ... point-to-point network if each **virtual circuit** is defined as a separate logical subnet. ...
www.ssuet.edu.pk/~amkhan/cisco/(ebook%20pdf)%20-%20Cisco-CCIE-Fundamentals-Network-Design.pdf - Similar pages

[PDF] Internet Routing Architectures, Second Edition.doc
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This **path information** provides a mechanism that allows routing loops to ... **virtual circuit** doesn't exchange keepalive messages with the remote router. This ...
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subinterface on the router or **access server**. The DLCI number identifies a. **virtual circuit**. The no version removes this assignment. Syntax: ...
www.m40.net/techpubs/software/erx/erx410/bookpdfs/swcmdref.pdf - Similar pages

@TECHREPORT{Ball9211:Core, AUTHOR="Anthony Ballardie and Paul ...
However, the concept of a Network **Access Server** has grown up over the years ... **subscriber** and equipment information, given a telephone number as input. ...
www.cs.columbia.edu/~hgs/bib/i-d.bib - Similar pages

@TECHREPORT{Borm9705:Providing, AUTHOR="Bormann, C.", TITLE ...
It also supports different types of **comparison** operators, so services can use SNQP with ... associated with an established Permanent **Virtual Circuit** (PVC), ...
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[PDF] PortMaster Command Line Reference
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This command enables the multiple **subscriber** network (MSN) feature for countries ... This command displays BGP **path information** learned by the PortMaster. ...
www.pimpworks.org/livingston/command.pdf - Similar pages

[PDF] *:96 Internet application layer protocols and standards
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A transport layer **virtual circuit** established between two programs ... destination server in
the Request-URI without any **path information**. ...
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☐   1. **Providing Multiple-Channel Communication Using the Experimental Digital Switch**
Gordon, R.;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 30, Issue 6, Jun 1982 Page(s):1409 - 1416

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☐   2. **On the implementation of adaptive electronic hybrid for digital subscriber loops**
Wei, C.-H.; Kuo, N.-A.;
Circuits and Systems, IEEE Transactions on
Volume 35, Issue 8, Aug. 1988 Page(s):1024 - 1027
Digital Object Identifier 10.1109/31.1850

AbstractPlus | Full Text: PDF(332 KB)   IEEE JNL
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☐   3. **Deployment of ATM subscriber line systems**
Tusoboi, T.; Maeda, Y.; Hayashi, K.; Kikuchi, K.;
Selected Areas in Communications, IEEE Journal on
Volume 10, Issue 9, Dec. 1992 Page(s):1448 - 1458
Digital Object Identifier 10.1109/49.184875

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☐   4. **Full-duplex fast initializing digital subscriber loop echo cancellers**
Xixian Chen; Weiping Li;
Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on [se
Circuits and Systems II: Express Briefs, IEEE Transactions on]
Volume 41, Issue 2, Feb. 1994 Page(s):99 - 104
Digital Object Identifier 10.1109/82.281841

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☐   5. **A 0.5 μm CMOS ADSL analog front-end IC**
Cornil, J.P.; Chang, Z.Y.; Louagle, F.; Overmeire, W.; Verfaille, J.;
Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 1999 IEEE
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15-17 Feb. 1999 Page(s):238 - 239
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☐ 6. **Novel 1.3/1.55 /spl mu/m dual-wavelength receiver having embedded fiber circuit fi
optical subscriber systems**
Uno, T.; Tohmon, G.; Matsui, Y.;
Optical Fiber Communications, 1996. OFC '96
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conversion serving four speech channels in a new-generation subscriber line circi**
Haspeslagh, D.; Sevenhans, J.; Delarbre, A.; Kiss, L.; Moerman, E.;
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Mistlberger, F.; Koch, R.;
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Volume 27, Issue 7, Jul 1992 Page(s):1089 - 1092
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Hongfei Liu; Jiuchuan Hu; Hongke Zhang; Jianbo Zhang;
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☐ 10. **Study on cell error rate of satellite ATM system based on CDMA**
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Jain, R.K.; Frenzel, R.; Terschluse, M.; Pandey, P.K.; Low, S.H.; Sukumaran, B.; Lam, L
Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE International Symposium on
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Conroy, C.; Sheng, S.; Feldman, A.; Uehara, G.; Yeung, A.; Chih-Jen Hung; Subramania
Chiang, P.; Lai, P.; Xiaomin Si; Fan, J.; Flynn, D.; Meiqing He;
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13. **A differential error reference adaptive echo canceller for multilevel PAM line code:**
Perez-Alvarez, I.A.; Paez-Borrallo, J.B.; Zazo-Bello, S.;
Acoustics, Speech, and Signal Processing, 1996. ICASSP-96. Conference Proceedings.
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14. **An ANSI standard ISDN transceiver chip set**
Khorramabadi, H.; Agazzi, O.E.; Koh, T.; Haider, S.S.; Anidjar, J.; Cassiday, D.R.; Daub
Gerveshi, C.M.; Kumar, S.P.; Lalumia, M.; Ollo, S.; Peterson, T.R.; Price, D.L.; Tracy, P.
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Moyal, M.;
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G. W.R. Luderer, H. Che, J. P. Haggerty, P. A. Kirslis, W. T. Marshall
December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**
Publisher: ACM Press

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The popular UNIXᵀᴹ operating system provides time-sharing service on a single computer. This paper reports on the design and implementation of a distributed UNIX system. The new operating system consists of two components: the S-UNIX subsystem provides a complete UNIX process environment enhanced by access to remote files; the F-UNIX subsystem is specialized to offer remote file service. A system can be configured out of many computers which operate either under the S-U ...

2   Distributed operating systems   ◼
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

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Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

3   Design and evaluation of a wide-area event notification service   ◼
August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based

systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

4 <u>Balancing performance and flexibility with hardware support for network architectures</u> ■
Ilija Hadžić, Jonathan M. Smith
November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(719.03 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

5 <u>Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network (MCDN) system</u> ■
Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(178.43 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We also present throughput measurements as a function of velocity and describe a model to predict those numbers based upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

6 <u>A survey of routing techniques for mobile communications networks</u> ■
S. Ramanathan, Martha Steenstrup
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(276.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

7 <u>Trunking of TDM and narrowband services over IP Networks</u>
James Aweya
January 2003 **International Journal of Network Management,** Volume 13 Issue 1
Publisher: John Wiley & Sons, Inc.

Full text available: <u>pdf(418.58 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

8 <u>Pen computing: a technology overview and a vision</u>
André Meyer
July 1995 **ACM SIGCHI Bulletin,** Volume 27 Issue 3
Publisher: ACM Press
Full text available: <u>pdf(5.14 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

> This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

9 <u>A survey of UNI signaling systems and protocols for ATM networks</u>
Burkhard Stiller
April 1995 **ACM SIGCOMM Computer Communication Review,** Volume 25 Issue 2
Publisher: ACM Press
Full text available: <u>pdf(1.27 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

> The main aspect covered by signaling systems and protocols for ATM networks concerns the possibility to manage, maintain, and control a user-driven communication between arbitrary ATM end-systems connected to an ATM network. The tasks and procedures defined for, e.g., setting-up an ATM connection, are often very different concerning the rrelevant specifications of various working bodies (such as ITU-T or ATM-Forum) or certain vendors, although the basis to be done for maintaining ATM connec ...

10 <u>Communications networks for the force XXI digitized battlefield</u>
Paul Sass
October 1999 **Mobile Networks and Applications,** Volume 4 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: <u>pdf(745.29 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork architecture based solidly on the underlying communications protocols and technology of the commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Joint Technical Architecture (JTA), is taken from t ...

11 <u>Comparison of network protocol and architecture for distributed virtual simulation environment</u>

Bu-Sung Lee, Wen-Tong Cai, Stephen J. Turner, Jit-Beng Koh
July 2001 **ACM SIGOPS Operating Systems Review**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(688.63 KB)   Additional Information: full citation, abstract, index terms

In any distributed virtual simulation environment, the underlying network architecture and its protocols play an important part in its performance. This paper describes the different underlying protocols used in the support of the RTI implementation in the Federated Simulations Development Kit (FDK). The communication FM and MCAST modules were modified to support different protocols. The performance of two different protocols: TCP and a new Lightweight Reliable Multicast, called Pseudo Reliable ...

Keywords: DIS, FDK, HLA, RTI, RTI-Kit, fast messages, light weight reliable multicast

12 Notable computer networks
John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10
Publisher: ACM Press

Full text available: pdf(4.66 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

13 Routing as a flow control strategy in an integrated circuit/packet switched communications network
Kenneth R. Hebert, Udo W. Pooch
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, index terms

This research addresses the analysis of an event-driven FORTRAN Simulation Model that simulates a special kind of Computer-Communication network. The network modeled has a circuit-switched communication subnet whose trunk lines carry both voice and data traffic simultaneously. This effort considers the viability of routing strategies as a mechanism for reducing congestion. The performance of seven alternative routing strategies are measured in terms of user-visible metrics. Based ...

14 ATM: retrospective on systems legacy: A retrospective view of ATM
Charles Kalmanek
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(222.98 KB)   Additional Information: full citation, abstract, references, index terms

ATM was the focus of active research and significant investment in the early to mid 1990's. This paper discusses several visions for ATM prevalent at the time, and analyzes how ATM evolved during this period. The paper also considers the implications of this history for current connection-oriented technologies, such as optical transport networks and MPLS.

Keywords: ATM, MPLS, flow switching, transport networks

15 Topological optimization of an integrated circuit/packet-switched computer network
Mark J. Kiemele, Udo W. Pooch

January 1984 **Proceedings of the 16th conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper presents a methodology which can be used to optimize the topology of an integrated circuit/packet-switched computer-communication network. This special kind of network possesses a circuit-switched backbone with various packet-switched local access networks feeding into the communications subnet. An iterative, heuristic approach is used to generate a sequence of suboptimal solutions in lieu of one optimal solution. Application of the methodology shows that it is a flexible tool th ...

16 <u>TCP/IP performance with random loss and bidirectional congestion</u>
T. V. Lakshman, Upamanyu Madhow, Bernhard Suter
October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5
Publisher: IEEE Press

Full text available: pdf(287.04 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: ADSL, TCP, buffer management, cable modems, scheduling

17 <u>Design and modelling of internode: a mobile provider provisioned VPN</u>
Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux
February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(237.48 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN

18 <u>Voice over IP</u>
Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard
January 2002 **Communications of the ACM**, Volume 45 Issue 1
Publisher: ACM Press
Full text available: pdf(113.77 KB)
html(34.89 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

How can voice over the Internet claim a greater share of the worldwide phone market from the voice infrastructure dominated for more than 100 years by the public-switched telephone network?

19 <u>Internetworking using switched multi-megabit data service in TCP/IP enviroments</u>
David M. Piscitello, Michael Kramer
July 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: pdf(862.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

TCP/IP based networks were among the earliest and most successful applications of Local Area Network technologies, and TCP/IP-based internets continue to be a testing ground for emerging high performance transmission technologies as well as the distributed processing applications they support. As distributed processing applications become increasingly available in the next decade, consumer demand for high performance transmission services will extend beyond the distance serviceable by LANs; user ...

20 <u>Competitive advantage on the World Wide Web: a webmaster's guide</u>

Merrill E. Warkentin

October 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(779.01 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

As the importance of the World Wide Web continues to grow, firms are seeking innovative ways to leverage the technology for competitive advantage. Firms are implementing web-based systems for internal and external information dissemination and for digital interactivity, including commerce. This paper highlights some of these uses of the web and addresses managerial and technical considerations when initiating a web site project, both on the server side and client side of the web. The focus is on ...

Keywords: digital commerce, internet security, intranet, web design, web server

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Relevance scale ☐ ▭ ▬ ■ █

21 Beyond third generation telecommunications architectures: the convergence of internet technology and cellular telephony
Randy H. Katz
April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(994.41 KB)   Additional Information: full citation, citings

22 Algorithms and methodologies for new architectures: FlexPath NP: a network processor concept with application-driven flexible processing paths
Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild
September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**
Publisher: ACM Press, IEEE Computer Society
Full text available: 📄 pdf(261.77 KB)
📄 Publisher Site   Additional Information: full citation, abstract, references, index terms

In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources and (re-)configurable HW building blocks, such that different packet flows are forwarded via different, optimized processing paths through the NP. Packets with well understood, relatively simple processing requirements may even bypass the ce ...

Keywords: IP networking, application-specific architectures, dynamically reconfigurable processors, hardware accelerators, network processors

23 A threaded/flow approach to reconfigurable distributed systems and service primitives architectures
L. F. Ludwig
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

ACM workshop on Frontiers in computer communications technology
SIGCOMM '87, Volume 17 Issue 5
Publisher: ACM Press
Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, index terms

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

24 Data replicas in distributed information services
H. M. Gladney
March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1
Publisher: ACM Press

Full text available: pdf(1.94 MB)   Additional Information: full citation, abstract, references, index terms, review

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

25 Pandora - an experimental system for multimedia applications
Andy Hopper
April 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, citings

Pandora is a joint project between Olivetti Research Cambridge and the University of Cambridge Computer Laboratory. The project is investigating the use of multimedia workstations in a working environment with particular emphasis on digital video. It endeavours to place a camera on the desktop to make generation of multimedia documents as easy as producing text. We are aiming to produce a number of new applications as well as to provide insights into the way computer systems should be designed.T ...

26 Vision & challenges: A peer-to-peer approach to wireless LAN roaming
Elias C. Efstathiou, George C. Polyzos
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Publisher: ACM Press

Full text available: pdf(279.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

27 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Publisher: ACM Press

Full text available: pdf(2.45 MB)   Additional Information: full citation, index terms

28 A wireless broadband ad-hoc ATM local-area network

K. Y. Eng, M. J. Karol, M. Veeraraghavan, E. Ayanoglu, C. B. Woodworth, P. Pancha, R. A. Valenzuela

June 1995 **Wireless Networks**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, citings

> We describe the theory, design and ongoing prototyping of a wireless ATM LAN/PBX capable of supporting mobile users with multi-Mb/s access rates and multi-Gb/s aggregate capacities. Our proposed LAN consists of network nodes called Portable Base Stations (PBS) providing microcell coverage. The PBSs are designed to be low-cost, compact and high-speed and can be relocated conveniently. We employ a concept of ad-hoc networking in the layout of the PBS-to-PBS interconnection. That is, the PBSs ...

29 Comparison of signaling loads for PCS systems

Thomas F. La Porta, Malathi Veeraraghavan, Richard W. Buskens

December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6

Publisher: IEEE Press

Full text available: pdf(1.72 MB)   Additional Information: full citation, references, citings, index terms

30 Transmission facilities for computer communications

A. G. Fraser, P. S. Henry

October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

Publisher: ACM Press

Full text available: pdf(855.61 KB)   Additional Information: full citation, abstract, index terms

> This paper presents a brief introduction to architectures and technologies that probably will be used for wide-area communications. It starts with a review of the structure of today's network and some aspects of the *digital transmission* systems that dominate modem networks. Then the status and trends in wide-area transmission technology are addressed, first for the *backbone network* and then for the *local access network*. Local access refers to the transmission systems which c ...

31 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(502.20 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they

process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

32 Integrating E-Commerce and Games
Nizami Cummins
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6
Publisher: Springer-Verlag
Full text available: pdf(98.96 KB)   Additional Information: full citation, abstract, index terms

This paper investigates how many users of commercial interactive systems are not properly agents within the interactive narrative, largely due to the dynamics of branding in cyberspace. Parallels are drawn between the dynamic personalization of e-CRM engines and context aware computing systems. Several seminal games are discussed as examples of systems in which very different relationships exist between users and the system. Arguments are made for designing e-commerce interactive systems that in ...

Keywords: Agency, Brand, Context awareness, E-commerce, Games, Interaction design, Narrative, Simulation, User, e-CRM

33 Host groups: a multicast extension for datagram internetworks
David R. Cheriton, Stephen E. Deering
September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4
Publisher: ACM Press

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

The extensive use of local networks is beginning to drive requirements for internetwork facilities that connect these local networks. In particular, the availability of multicast addressing in many local networks and its use by sophisticated distributed applications motivates providing multicast across internetworks. In this paper, we propose a model of service for multicast in an internetwork, describe how this service can be used, and describe aspects of its implementation, inc ...

34 Mobile computing in next generation wireless networks
Prathima Agrawal, David Famolari
August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

Keywords: IMT-2000, cdma2000, mobile computing, wireless data

35 Summary of the 4th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)
G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2
Publisher: ACM Press

Full text available: pdf(1.11 MB)   Additional Information: full citation, index terms

36 A case study of synthesis for industrial-scale analog IP: redesign of the equalizer/filter frontend for an ADSL CODEC
Rodney Phelps, Michael J. Krasnicki, Rob A. Rutenbar, L. Richard Carley, James R. Hellums
June 2000 **Proceedings of the 37th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(211.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

A persistent criticism of analog synthesis techniques is that they cannot cope with the complexity of realistic industrial designs, especially system-level designs. We show how recent advances in simulation-based synthesis can be augmented, via appropriate macromodeling, to attack complex analog blocks. To support this claim, we resynthesize from scratch, in several different styles, a complex equalizer/filter block from the frontend of a commercial ADSL CODEC, and verify by full si ...

37 Summary of the 4th international workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)
G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, index terms

This paper presents a summary of the fourth International Workshop on Network and Operating System Support for Digital Audio and Video held at Lancaster. The contents of each session (including panel and work in progress sessions) are described and major areas of controversy are highlighted. A complete bibliography of all papers presented is included.

38 The price of selfish routing
Marios Mavronicolas, Paul Spirakis
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(233.77 KB)   Additional Information: full citation, abstract, references, citings, index terms

We study the problem of routing traffic through a congested network. We focus on the simplest case of a network consisting of m parallel links. We assume a collection of n network users, each employing a mixed strategy which is a probability distribution over links, to control the shipping of its own assigned traffic. Given a capacity for each link specifying the rate at wh ...

39 Technical papers: concurrency: Software model checking in practice: an industrial case study
Satish Chandra, Patrice Godefroid, Christopher Palm
May 2002 **Proceedings of the 24th International Conference on Software Engineering**
Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present an application of software model checking to the analysis of a large industrial software product: Lucent Technologies' CDMA call-processing library. This software is

deployed on thousands of base stations in wireless networks world-wide, where it sets up and manages millions of calls to and from mobile devices everyday. Our analysis of this software was carried out using VeriSoft, a tool developed at Bell Laboratories that implements model-checking algorithms for systematically testin ...

40 GIP: an infrastructure for mobile intranets development

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris
July 2001   **Proceedings of the first workshop on Wireless mobile internet**
Publisher: ACM Press

Full text available: pdf(566.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

The GPRS and UMTS specifications define the procedures supporting the mobility and the data sessions of a mobile user moving within the area of the corresponding PLMNs. For the case, though, of mobile users working in group, using a PLMN infrastructure, the aforementioned networks foresee no special treatment. However, services tightly related to a specific geographic area, like for example security or surveillance services, could be implemented by a group of collaborating Mobile Nodes f ...

Keywords: GPRS, UMTS, mobile intranet

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41 An integrated admission-degradation framework for optimizing real-time call mix in   ▬
wireless cellular networks
Gergely Záruba, Imrich Chlamtac, Sajal K. Das
August 2000 **Proceedings of the 3rd ACM international workshop on Modeling,
analysis and simulation of wireless and mobile systems**
Publisher: ACM Press

Full text available: 🗎 pdf(789.35 KB)   Additional Information: full citation, abstract, references, citings, index
terms

This paper describes an integrated framework for selecting optimal call mixes (in a
multimedia traffic scenario) by bandwidth degradation in a wireless cellular network, to
maximize the revenue earned by the service provider. Each admitted call in our
framework generates a revenue for the service provider based on the parameters of the
call. The sum of the revenues generated by all admitted calls at a time is considered as
the total revenue earned in a cell. By degradation, ...

Keywords: admission control, call degradation, cellular systems, framework

42 Mobility management for hierarchical wireless networks
Guangyu Pei, Mario Gerla
August 2001 **Mobile Networks and Applications**, Volume 6 Issue 4
Publisher:

Advances in high-speed networking
William Stallings
March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(163.21 KB)   Additional Information: full citation, references, index terms

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1   Papers: Context-agile encryption for high speed communication networks   ☐

Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.43 MB)   Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

2   New architectures: Loose source routing as a mechanism for traffic policies   ☐

Katerina Argyraki, David R. Cheriton
August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**
Publisher: ACM Press
Full text available: 📄 pdf(135.80 KB)   Additional Information: full citation, abstract, references, index terms

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol Label Switching (MPLS). We claim that these approaches have not succeeded because they require, either explicitly or subtly, a network-layer virtual circuit mechanism.In this paper, we describe how adding a form of Loose Source and Record ...

Keywords: filtering, loose source routing, quality of service, route control, traffic policies

3   An approach for interconnecting SNA and XNS Networks   ☐

Kenneth O. Zoline, William P. Lidinsky
September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**; Volume 15 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index

Interest in computer internetworking has resulted from the proliferation of wide area and local area networks. The CCITT, DARPA/DoD, and ISO/ECMA internetworking models, which have become widely accepted for doing this, do not address the pragmatic problem of interconnecting computer networks that are based upon closed-system, vendor-proprietary network architectures. This paper presents an approach for interconnecting private data networks that are based upon IBM's System Network Architect ...

4 Notable abbreviations in telecommunications

Haris W. Barz

April 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 2

Publisher: ACM Press

· Full text available: pdf(1.53 MB)   Additional Information: full citation, abstract, index terms

Two years ago I already published the first version of abbreviations - see [1]. Compared to the first edition the number of abbreviations has doubled.

5 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon

April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Publisher: IEEE Press

Full text available: pdf(154.32 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

6 A bibliography on performance issues ATM networks

I. Nikloaidis, Raif O. Onvural

October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, citings, index terms

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

7 Design of inter-administrative domain routing protocols

L. Breslau, D. Estrin

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings, index terms

Policy Routing (PR) is a new area of development that attempts to incorporate policy related constraints on inter-Administrative Domain (AD) communication into the route computation and forwarding of inter-AD packets. Proposals for inter-AD routing mechanisms are discussed in the context of a design space defined by three design parameters: location of routing decision (i.e., source or hop-by-hop), algorithm used (i.e.,

link state or distance vector), and expression of policy in ...

8 Session A: Routing: On the impact of alternate path routing for load balancing in mobile ad hoc networks
Marc R. Pearlman, Zygmunt J. Haas, Peter Sholander, Siamak S. Tabrizi
November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**
Publisher: IEEE Press
Full text available: pdf(600.19 KB)   Additional Information: full citation, abstract, references, citings

Alternate path routing (APR) can provide load balancing and route failure protection by distributing traffic among a set of diverse paths. These benefits make APR appear to be an ideal candidate for the bandwidth limited and mobile ad-hoc networks. However, we find that APR's potential is not fully realized in ad-hoc networks because of route coupling resulting from the geographic proximity of candidate paths between common endpoints. In multiple channel networks, coupling occurs when paths shar ...

9 Multilink PPP
George E. Conant
September 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(21.14 KB)   Additional Information: full citation, abstract, index terms

One Big Virtual WAN Pipe: MLPPP gives network managers the power to deliver WAN bandwidth on demand using an array of services

10 Fast restoration of real-time communication service from component failures in multi-hop networks
Seungjae Han, Kang G. Shin
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: pdf(1.96 MB)   Additional Information: full citation, abstract, references, citings, index terms

For many applications it is important to provide communication services with guaranteed timeliness and fault-tolerance at an acceptable level of overhead. In this paper, we present a scheme for restoring real-time channels, each with guaranteed timeliness, from component failures in multi-hop networks. To ensure fast/guaranteed recovery, *backup channels* are set up a *priori* in addition to each *primary channel*. That is, a *dependable real-time connection* consists of a pr ...

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